

## **Energy Movement Evolution Projected Increase in Movement of** Oil, Coal, & Other Commodities



• Alberta oil sands exports by tank ships from Vancouver BC will increase by approximately 210 crude oil tankers per year through Salish Sea waters by 2017, a 300% increase from the current level.



- 2 proposed coal terminals in Longview and Cherry Point would increase
- 54 million metric ton = 450 ships (Gateway Pacific Terminal Project)
- 44 million metric tons of coal = 730 large ships (Millennium Terminal
- This increase in vessel traffic will bring additional fuel transfer operations in both the Puget Sound and Columbia River.



Kinder Morgan Transmountain Pipeline expansion to bring more product from Canada to US (company estimates an increase from 170,000 barrels to 225,000 barrels per day).



We expect an increase into the state of oil sands from Canada and Bakken shale oil from North Dakota and Montana. There are 9 existing and proposed terminals that could receive crude oil by rail.



- 1 unit train = 100-120 rail cars
- 1 rail car = carries 25,200 (600 barrels) to 31,500 (750 barrels) of
- 1 unit train (with 100 rail cars) = carries 2.5 3.1 million gallons of crude oil
- 10 unit train = 1 large tanker

Petroleum pipelines Railroads Proposed crude terminal

\* Volume calculation based on 5 years average